

CBF

Customer Simulation Period

April and May 2018

Guideline

CBF

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March 2018

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1. Introduction

Clearstream Banking Frankfurt (CBF) will offer a customer simulation period and test cases dedicated to the enhancements developed by CBF for TARGET2-Securities (T2S) services and the service updates of existing CBF functionality. These test cases consider mainly the processing between CBF and T2S when the functionality might impact CBF customers acting in ICP and / or DCP mode. The test cases set up by CBF will support the simulation of business cases where specific environment requirements are necessary. In addition, customers can execute test cases based on their own needs using the CBF Customer Simulation environment (IMS23).

The participation in this simulation is optional and is not a prerequisite for admission to production for the launch dates of the CBF Release on 7 May and the T2S Release 2.0 on 11 June 2018.

In the period from **16 April to 4 May 2018** customers can execute test cases related to the modifications in the CBF software. Customers who would like to execute dedicated test cases were requested to register by 23 March 2018. The related [registration form](#) is available on the Clearstream website.

Customers acting in DCP mode might require additional testing for their procedures with T2S using the T2S Pre-Production Environment (UTEST). These customers must consider possible CBF downtimes of IMS23 while executing their test cases.

The functional details about the envisaged changes is available in Announcement [D18012 "CBF Release Information May and June 2018"](#).

2. Scope of the customer simulation

A few functional modifications in CBF software related to TARGET2-Securities (T2S) services require a dedicated test setup. Therefore, CBF will offer a customer simulation period, with all software updates induced by CBF, starting as of 16 April 2018. Additionally, customers can also execute test cases based on their own requirements.

The content and period of the simulation for the CBF and T2S-related enhancements are combined for the CBF Release May and June 2018. In line with the functional description described in Announcement [D18012 "CBF Release Information May and June 2018"](#) the following test cases will be supported.

- Corporate Actions Processing (KADI)
CBF will execute the events redemption, dividend payment and bonus share.
For this, "Focus Days" are scheduled in April and May 2018.
- Cash Forecast reporting
CBF will maintain a link to the T2CUST¹ environment that allows liquidity transfers towards UTEST. This end-to-end test will be supported from 17 to 26 April 2018.
- T2S Auto-Coll on main account
Customers who would like to participate in the upgraded service and require testing can request a test window to allow a transition of the main account. The test window will be agreed on by the involved parties (T2S, NCB and CSDs).
- KUSTA Data Carrier "CBF Customers"
No dedicated registration is required as the test files will be made available on the Clearstream website on 23 April 2018.
- Taxbox
No dedicated registration is required, if the customer is already listed in the related routing table. CBF will facilitate the technical data transfer between Taxbox participants.

More details can be found in the related sections of this document.

2.1 Preparation of the customer simulation

According to the ECB planning, the updated software for T2S Release 2.0 will be implemented on 2 April 2018 in the T2S Pre-Production Environment (UTEST). CBF will align the availability of the enhanced software in the CBF Customer Simulation environment (IMS23) accordingly.

Before the customer simulation can be executed a downtime from 26 March to 13 April 2018 is scheduled in IMS23. During this period, CBF will create additional security holdings on customer accounts for dedicated test cases, if requested. The [registration form](#) was published on the Clearstream website on 22 February 2018. It was requested to be **returned by 23 March 2018**.

Starting 9 April 2018, the CBF T2S Settlement Functionality Team will modify the account settings and conduct quality checks. Customers who are connected to UTEST and receive (settlement) reporting might notice instruction flows between CBF and T2S from setup activities.

Between 9 and 13 April 2018, CBF will collect existing holdings in the predefined securities from customer accounts and redistribute them via CBF account 4424 to the respective CBF main account (xxxx 000). Once the holdings are set up, customers acting in ICP mode can verify them via the CASCADE Online functionality (HOST / PC) or MT535 Statement of Holding, if subscribed in IMS23. In this timeframe, customers must not enter test cases or transmit instructions via an automated connectivity channel towards IMS23 or UTEST. In addition, during this period, the CASCADE Online functionality (HOST / PC) must not be used. This will allow the CBF T2S Settlement Functionality Team a reconfiguration of IMS23 in time.

¹ Test environment of National Central Banks (NCBs)

The table below shows the ISINs that will be maintained by the CBF T2S Settlement Functionality Team:

Instrument Type	ISIN	Name	Nominal available for testing	Stock Exchange Processing
Bond	DE000NRW1006	4,375 % LAND NRW SCHATZ07R790 29.04.G	1.000.000	Enabled
Bearer Share	DE0005428007	COMDIRECT BANK AG	100.000	Enabled
Bearer Share	DE0005634000	EASY SOFTWARE AG	100.000	Enabled

Table 1 - Dedicated ISINs for customer simulation period April and May 2018

As of 16 April 2018, participating customers can start to execute test cases and assess possible impacts on their functional and organisational procedures. For this simulation period, the already existing static data for CBF accounts and the related connectivity settings enabled in IMS23 will remain unchanged.

2.2 CBF customer simulation calendar

The following calendar covers the period from 16 April to 4 May 2018. It shows the availability of the CBF Customer Simulation environment (IMS23) and highlights the “CCP batch days” as well as the execution days related to the dedicated test cases.

The overall test schedule provided on the following page indicates the downtimes already defined for IMS23 or UTEST. If one of the environments is not available or the testing is limited because of particular measures ensuring a proper test execution, there might be additional downtimes. CBF will inform customers about such downtimes in due time via email to their contact nominated in the Customer Simulation Registration Form.

Customers acting in DCP mode and connected to UTEST need to consider possible CBF downtimes while executing their test cases. During these periods the T2S feedback might not be transmitted. This applies if the related settlement processing requires a validation by CBF. However, the T2S reporting will be provided upon message subscription and will contain the information according to the definition of T2S.

Customer simulation calendar: CBF Release May and June 2018				
Test Day		Availability of IMS23	CCP Simulation Calendar	Dedicated Test Case Focus Day
Monday	16-Apr-18	open		Taxbox testing is enabled during the entire simulation period, that is until 4 May 2018.
				Liquidity transfer setting are requested to be checked by registered customers.
				Preparation Focus Day: REDM (Notification)
Tuesday	17-Apr-18	open		End-to-end testing for CBF Cash Forecast is enabled until 26 April 2018
				Preparation Focus Day: DVCA (Notification)
Wednesday	18-Apr-18	open	CCP Batch Day	Preparation Focus Day: REDM (End of interest period)
Thursday	19-Apr-18	open	CCP Batch Day	Focus Day: REDM (Payment Date)
Friday	20-Apr-18	open until 14:00		
Saturday	21-Apr-18	Weekend		
Sunday	22-Apr-18	Weekend		
Monday	23-Apr-18	open		Starting on / with this date, KUSTA Data Carrier "CBF Customers" with the new format is available on the Clearstream website.
Tuesday	24-Apr-18	open	CCP Batch Day	Preparation Focus Day: BONU (Notification)
				Preparation Focus Day: DVCA (Ex Date)
Wednesday	25-Apr-18	open	CCP Batch Day	Preparation Focus Day: DVCA (Record Date)
Thursday	26-Apr-18	open	CCP Batch Day	End-to-end testing for CBF Cash Forecast; customer simulation to be completed
				Focus Day: DVCA (Payment Date)
Friday	27-Apr-18	closed		Preparation of T2S Release 2.0: Additional functionality will be deployed. More details can be found in the Appendix B.
Saturday	28-Apr-18	Weekend		
Sunday	29-Apr-18	Weekend		
Monday	30-Apr-18	open		
Tuesday	01-May-18	closed		Public Holiday in Germany / Luxembourg
Wednesday	02-May-18	open	CCP Batch Day	Preparation Focus Day: BONU (Record Date)
Thursday	03-May-18	open	CCP Batch Day	Focus Day: BONU (Payment Date)
Friday	04-May-18	open until 14:00		

Table 2 - Customer simulation calendar for the period April and May 2018

3. CBF Customer Simulation environment (IMS23)

The static data for CBF accounts and the related connectivity settings in IMS23 remain unchanged as for the T2S Release 1.3 testing period in June 2017, if not modified on customer request for other test scenarios with CBF.

3.1 Stock Exchange transactions (CCP / non-CCP)

Upon customer demand, stock exchange trades can be entered for settlement via LION or CASCADE. Trades can be set up with a Market Identifier Code (MIC) in the trading system. If the flag

- “XFRA” is used, they are forwarded as non-CCP trades towards the CBF system LION.
- “XETR” is used, they are processed via CCP and clearing results will be provided to CBF for further processing in CASCADE.

In general, the simulation environment of Eurex Clearing (ECAG) for CCP activities will be connected to the CBF Customer Simulation environment (IMS23).

A list of eligible securities is available in the Eurex Clearing member section of the Eurex Clearing website www.eurexclearing.com.

ECAG will forward test instructions to CBF in ICP mode. These instructions will be transmitted on the “CCP Batch Days” only. The batch days defined by ECAG are shown in the table in section 2.2.

Once the CCP instructions arrive at CBF, they will be forwarded for settlement to UTEST. ECAG will delete pending (unsettled) transactions according to their testing / batch day procedures.

Stock Exchange instructions processed via LION transactions will be supported during the period from 16 April to 30 April 2018.

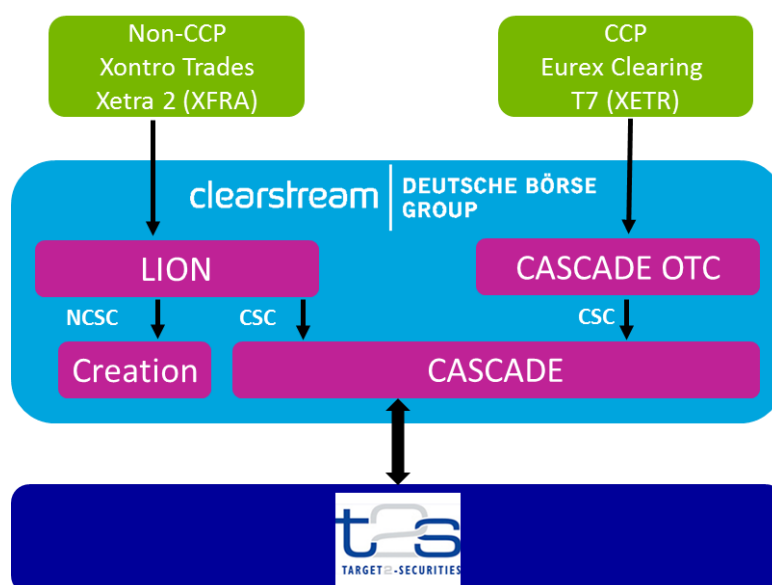


Figure 1 - Process chain stock exchange instruction

4. Execution of dedicated test cases

This chapter provides the detailed description of dedicated test cases for the customer simulation in the period from 16 April to 4 May 2018. Each of the following sections provides a short summary of the modifications. The detailed functional specification is available in Announcement [D18012 "CBF Release Information May and June 2018"](#)². If CBF requires information from the customer for the successful test execution, these prerequisites are shown, too.

The availability of the T2S software changes in the T2S Pre-Production Environment (UTEST) is scheduled for 29 March 2018. Prior to the deployment of the software, T2S would like to clean the environment and reduce the number of pending test instructions. Therefore, T2S will change the "recycling period" for pending unmatched as well as matched customer instructions to "1". Due to this purge activity, the duration of the End of Day (EoD) processing using the event "EoD Recycling and Purging (EORP)", might increase. As a result, all pending instructions will be cancelled. Within this period, customers acting in ICP and / or DCP mode will receive cancellation notice for each system-generated cancellation during the night-time settlement (NTS). Once the deployment of T2S Release 2.0 in UTEST is completed, the parameter will be set back to the current value.

During the test execution, each customer participating in the simulation is requested to consider that high volume of pending instructions in UTEST impacts the performance of all T2S test environments. Therefore, the customer should actively monitor the number of pending instructions and ensure that not more than 500 pending instructions are active in the test system. In order to determine the number all instructions must be considered, independent from

- The status, that is matched, unmatched, hold or release;
- The business procedure, that is domestic and cross-border instructions, Stock Exchange trades (via LION or CCP) and instructions resulting from corporate actions; or
- The connectivity channel, that is ICP or DCP mode.

This limitation applies to all accounts (and sub-accounts) of a customer that are set up in the CBF Customer Simulation environment (IMS23) for testing.

² In case of updates customers are requested to use the latest version of the Release Information for their preparation of test cases.

4.1 Focus Days for corporate actions

With the CBF Release May 2018, CBF will enhance the corporate action processing (KADI) for the following functional procedures:

- Customers can enter or transmit OTC instructions (CASCADE instruction type AA01 / 02) with the ISO transaction code "CLAI" (market claims). The current logic for the instruction management will apply for these instructions, too. Customers can modify and cancel their instructions setup with "CLAI" the way as for other OTC instruction. However, these instructions are not subject to the CBF passive matching service and need to be flagged with the OPT / OUT indicator, if they should be excluded from the transformation or claims processing.
- During the 20 days³ transformation detection period instructions entered or transmitted by CBF customers acting in ICP and / or DCP mode will be accepted by T2S. These instructions can be matched at T2S, but only instructions provided by a CSD (transformed instructions) or PFoD instructions sent by a CCP can achieve final settlement. At the end of the transformation detection period, all remaining instructions will be rejected. The related error code has been updated by T2S.

In order to allow testing for the above-mentioned functional enhancements, three custody events are defined. The event details can be found on the following pages. The test execution is only possible when the customer registered for the simulation and CBF will enable the necessary holdings. For more information on the creation of holdings, please refer to section 2.1.

The testing of market and reverse claims and transformations requires pending instructions. Customer are requested to set up their business cases:

- Via CASCADE to create OTC instruction; or
- Via a trading system with the Market Identifier Code (MIC)
 - XFRA to allow a settlement via LION; or
 - XETR to enable a clearing via the CCP.

The details about the process chain for stock exchange instructions are available in section 3.1.

³ This detection period of 20 business days is also valid in UTEST.

4.1.1 Redemption (REDM)

General information for maturity without interest payment
Redemption of a bond on the RTGS account in DD cycles with optional liquidity transfer
Focus Day: 19 April 2018
<p>1) The redemption cash payment will be posted on the RTGS account in the CBF DD1 cycle according to the T2 ASI procedure 3</p> <p>2) Transformation in cash, if there is an existing pending OTC (FoP /DvP) instruction and / or Stock Exchange trade in the underlying security. The transaction and redemption amounts are paid separately in CBF DD cycles (DD1 or DD2). The original underlying instruction is cancelled following the transformation (in the simulation this is handled once the event is processed).</p> <p>3a) CBF reporting to customers acting in ICP mode</p> <p>3b) T2S (DCP) reporting via sese.023, sese.024 and sese.025 CORP</p> <p>4) Optional – Customers might create new settlement instructions after the maturity date.</p>
<p>Precondition:</p> <ul style="list-style-type: none">• Securities position: CBF provides an initial setup of holdings on each main account (XXXX 000) participating in the simulation after the downtime starting on 9 April 2018, if requested by the customer. Customers must ensure that they have sufficient holdings in the respective ISIN on their CBF accounts in order to successfully test this non-income event.• Event notification via MT564: The event notification will be provided as shown below in the event details.• Claims period: The detection period is 20 days in UTEST.

Detailed information for maturity without interest payment			
CA events details	Reporting type	Report	Send date / online availability
Event type: 130 (Redemption) SWIFT event ID: REDM ISIN: DE000NRW1006 Name: 4,375 % LAND NRW SCHATZ07R790 29.04.G Security type: Bond Redemption rate: 100 (Currency: EUR) CBF entitlement day: 18 April 2018 Value / Payment date: 19 April 2018	ICP mode: ISO 15022	MT564 Notification	For the processing of position: 16 April 2018 For market claims: during 5-day claims period
		MT566 Confirmation "CLAI"	For the processing of position: on payment date For market claims: during 5-day claims period
		For redemption of security position: MT942 / 950 Cash reporting	On payment date
	CASCADE-HOST / CASCADE-PC	KVDU (movements) KVBA-BB (positions per ISIN) movements / positions - movements - booked - positions - final	CASCADE Online opening hours from value / payment day onwards
	DCP mode: ISO 20022	sese.025 (Settlement)	According to T2S UTEST operational day

4.1.2 Bonus Share (BONU)

General information for a Bonus Share (BONU) processed according to the Record Date logic
Focus Day: 3 May 2018
<p>1) Security distribution with FoP credits for position on Record Date processed and forwarded to T2S for Night-Time Settlement (NTS)</p> <p>2a) Processing of market and reverse claims only if there are existing pending OTC instructions and Stock Exchange trades in the underlying security which settle after their regular intended settlement day during the claims period and only if OTC instructions are not excluded from the claims process</p> <p>2b) For market claims FoP instructions are generated and forwarded to T2S for Real Time Settlement (RTS) several times during the day depending on when the underlying transaction has settled.</p> <p>2c) For reverse claims FoP instructions are generated and forwarded to T2S for Night-Time Settlement (NTS) only.</p> <p>3a) CBF reporting to customers acting in ICP mode</p> <p>3b) T2S (DCP) reporting via sese.023, sese.024 and sese.025 CORP</p>
<p>Precondition:</p> <ul style="list-style-type: none"> Securities position: CBF provides an initial setup of holdings on each main account (XXXX 000) participating in the simulation after the downtime starting on 9 April 2018, if requested by the customer. Customers must ensure they have sufficient holdings in the respective ISIN on their CBF accounts in order to successfully test this non-income event. Event notification via MT564: The event notification will be provided as shown below in the event details. Claims period: CBF defined a claims period of 5 days. <p>Customer action:</p> <ul style="list-style-type: none"> Market and reverse claims: Customers must decide whether they want to simulate market or reverse claims related to the Bonus Share. If so, customers must enter Domestic OTC DvP or FoP instructions with the respective instruction details. They must adhere to the CBF compensation rules to be considered in the claim process. Market and reverse claims are reported in ICP mode and DCP mode. Customer can still overrule the general Record Date criteria to generate claims by using respective flags (OPT / OUT flag / Cum / Ex-flag) within their OTC instructions.

Detailed information for the event Bonus Share (BONU) processed according to the Record Date logic			
CA event details	Connectivity Type	Report	Send date / Online availability
Event type: 211 (BONU) SWIFT Event ID: BONU Mandatory event ISIN Code: DE0005634000 Name: Easy Software AG Security type: Bearer Share Ratio: 2 for 5 Record day: 2 May 2018 Value / payment date: 3 May 2018	ICP mode: ISO 15022	MT564 Notification	For the processing of position: 24 April 2018 For market claims: During 5-day claims period
		MT566 Confirmation "CLAI"	For the processing of position: On payment date For market claims: During 5-day claims period
	CASCADE-HOST CASCADE-PC	KVDU (movements) KVBA-BB (positions per ISIN) movements / positions - movements - booked - positions - final	CASCADE Online opening hours from value / payment day onwards
	DCP mode: ISO 20022	sese.025 (Settlement)	According to T2S UTEST operational day

4.1.3 Dividend (DVCA)

General information for dividend payment
Dividend payment on the RTGS account in DD cycles based on the Record Date logic with optional Liquidity Transfer
Focus Day: 26 April 2018
<p>1a) Dividend cash payment for position on the RTGS account in the CBF DD1 cycle according to the T2 ASI procedure 3 based on the Record Date logic</p> <p>1b) Generation of market claims and reverse claims in DD cycles (DD1 / DD2) only if there is an existing pending OTC (FoP / DvP) instruction or Stock Exchange trade in the underlying security which settle after their regular intended settlement day during claims period and only if OTC instructions are not excluded from the claims process</p> <p>2) Optional CBF service for customers in ICP mode to transfer the dividend fund which they have received on their RTGS account within the CBF DD1 cycle from the RTGS account in TARGET2 to a DCA in T2S. This liquidity transfer can be set up online in CASCADE-HOST / CASCADE-PC as a single or a standing instruction.</p> <p>3a) CBF reporting for customers in ICP mode</p> <p>3b) Settlement reporting regarding market claims for customers in DCP mode</p>
<p>Precondition:</p> <ul style="list-style-type: none"> Securities position: CBF provides an initial setup of holdings on each main account (XXXX 000) participating in the simulation after the downtime starting on 9 April 2018, if requested by the customer. Customers must ensure they have sufficient holdings in the respective ISIN on their CBF accounts in order to test successfully the income event. Event notification (for example, via MT564): The event notification is provided at the earliest five days before the event takes place. Claims period: CBF defined a claims period of 5 days. <p>Customer action:</p> <ul style="list-style-type: none"> Market claims and reverse claims: Customers must decide whether they want to simulate claims handling regarding dividend payments. If so, customers must instruct in CASCADE domestic OTC instructions with the respective instruction details. These instructions have to adhere to the CBF compensation procedure rules in order to be considered in the compensation process. Automatic Liquidity Transfer from the RTGS account to the DCA account: Customers have the possibility to initiate the liquidity transfer from their RTGS account to their DCA account after the CBF DD1 cycle on payment date by submitting these transfers in CASCADE-HOST with KVEE / EL or DL or via CASCADE-PC in the folder "cash"- instructions / standing instructions.

Detailed information for the test case Dividend (DVCA)			
CA event details	Reporting types	Report	Send date / online availability
Event type: 120 (Dividend) SWIFT Event ID: DVCA ISIN code: DE0005428007 Name: COMDIRECT BANK AG Security type: Bearer Share Dividend amount: 1,05 (Currency: EUR) Payment period: 1 January 2017 – 31 December 2017 Ex date: 24 April 2018 Record day: 25 April 2018 Value / Payment date: 26 April 2018	ICP mode: ISO 15022	MT564 / MT568 notification (custody reporting per individual ISIN for position and per market claim)	For the processing of position: 17 April 2018 For market claims: During 5-day claims period
		MT566 (custody reporting per individual ISIN for position and per market claim)	On payment date for position For market Claims: During 5-day claims period
		Only for security position: MT942 / 950 Cash reporting	On payment date
	HOST File Service	For the processing of position: Custody (KADI) Reports (per individual ISIN position) For market claims: Custody (KADI) Report KV111 (per individual ISIN) Only for market claims: daily cash statement / Geldtagesauszug	On payment date During 5-day claims period During 5-day claims period
	CASCADE-HOST	For the processing of position: <ul style="list-style-type: none"> KVGI-KE (under booking cycle '1' per individual ISIN) KNZI-ID (per individual ISIN) For market claims: <ul style="list-style-type: none"> KVGI-KO (under booking cycles '1' or '2' per individual ISIN) KNZI-ID (per individual ISIN) 	CASCADE Online opening hours: from payment day onwards During five days claims period
	CASCADE-PC	For the processing of position and markets claims: <ul style="list-style-type: none"> Custody services and other payments 	

4.2 Cash Forecast

The CBF Cash Forecast will be enriched in line with the modifications defined for T2S CR 540 "Alignment of U2A and A2A cash forecast information".

Today, the cash forecast report displays a separate sum for the current and the following business day. The sum is a result of the pending matched delivery and receive against payment instructions in Euro. In future, there will be each time a total for pending matched delivery against payment instructions and a total for pending matched receive against payment instructions.

On 16 April 2016, customers using CBF Liquidity Management services can check if they would like to update standing instructions in IMS23. Only if these parameters and the respective T2CUST RTGS account are in place, liquidity transfers can be initiated by CBF. A further processing towards T2S DCA on UTEST depends on the test setup of the respective NCB.

For the management of liquidity transfers the following transactions and functions can be used:

Transaction/function	Instruction type	Functionality
KNEE – EL (new)	Single	Entry
KNEE – DL (new)	Standing	Entry
KNEA – AN	Single	Modification
KNEA – DA	Standing	Modification
KNEA – LN	Single	Deletion
KNEA – DL	Standing	Deletion
KNGI – IG	Single	Information
KNGI – ID	Standing	Information

Table 3 - Screens for liquidity transfers

In the period from 17 to 26 April 2018, customers can check their liquidity requirements via the CASCADE Online functionality by using the transaction "KUCF".

4.3 T2S Auto-Coll on main account

The T2S Auto-Collateralisation (T2S Auto-Coll) service provides automatically collateralised intraday liquidity when there is not enough liquidity provisioned on a Dedicated Cash Account (DCA) to settle a delivery versus payment transaction.

Customers that would like to start using the T2S Auto-Coll service via an existing CBF main account must consider that a transformation of the account will become necessary. That is, that the account will be updated to reflect the earmarking flag “EEUR” or “EXXX”. Additionally, the position type for all holdings is requested to be modified. This transformation requires an interaction with the T2S settlement platform for the static data of the securities account (SAC) as well as the earmarking for existing holdings and pending instructions.

CBF will support a simulation of the transition tasks and procedures. Similar to production a dedicated test execution plan considering the timeline, number of holdings and pending instructions needs to be set up individually for each CBF customer.

Interested customers can provide a simulation request via email to the Clearstream Connectivity Support team (connectfrankfurt@clearstream.com). The simulation request shall include the following details:

Settings for envisaged simulation	Format
CBF account master	4 digits
CBF sub-account for T2S Auto-Coll service	7 digits
NCB responsible for Dedicated Cash Account (DCA)	Name
DCA used for customer simulation with CBF	Number of DCA
Third Party Management (Head Office) enabled	Yes / No
Message types used for maintenance of registered shares	List of messages
Participation in LION	Yes / No
Eurex Clearing Member	Yes / No
Preferred simulation period	Start date / end date

Table 4 – Details of the simulation request related to T2S Auto-Coll on main account

The CBF T2S Settlement Functionality Team will collect the simulation requests for T2S Auto-Coll on main account and will agree on the timeline with the involved participants and T2S Actors.

4.4 KUSTA Data Carrier “CBF Customers”

In November 2017, CBF started with the reorganisation activities of the KUSTA Data Carrier (KUSTA Datenträger). This initiative has been set up, as a number of information presented in the file is no longer needed because of the processing with T2S. Hence, the KUSTA Data Carrier “Markets” will be removed from production. Additionally, the KUSTA Data Carrier “CBF Customers” will be transmitted with a new format and structure. The final layout is available in Announcement [D18012 “CBF Release Information May and June 2018”](#)⁴.

In order to allow a testing, CBF will provide a test files for the KUSTA Data Carrier “CBF Customers”.

The following files will be made available as

- Full report;
- Delta report;
- Internet version.

On 23 April 2018, these test files will be available on the Clearstream website under [Testing and Simulation](#) (for Premium users only).

CBF is going to provide test data in the different report types. That is, the data differs from the information that is available for the account master details in production.

⁴ In case of updates customers are requested to use the latest version of the Release Information for their preparation of test cases.

4.5 Taxbox

In 2017, the Taxbox service was prepared for enhancements linked to the German Investment Tax Reform Act (InvStRefG). With the CBF Release May 2018, additional data fields will be introduced. Taxbox will support partial exemption quota ("Teilfreistellungsquoten") applicable to mixed funds, equity funds as well as domestic and foreign real estate funds.

Further fields are introduced to flag the purchase of millionaire funds ("Millionärsfonds") and to indicate deemed disposals after 31 December 2017. The related functional and technical details are available on the Clearstream website under Clearstream Products and Services / Asset services / Tax and certification / [Taxbox](#).

From 16 April to 4 May 2018, a simulation phase for Taxbox participants to test the service extensions will be offered. Participants are requested to prepare for the test execution and define business test cases for data transfers to other participating institutions.

The settlement of free of payment (FoP) instructions is not the focus of this simulation phase and can be executed on customer demand via the different STP (straight-through processing) connectivity channels or the Online functionality in ICP and / or DCP mode.

During the simulation phase, CBF will facilitate the technical data transfer between Taxbox participants, if the related bank identifier codes (BIC or BLZ) are established and listed in the respective routing table of the CBF message configuration. Participants are therefore requested to validate and update the routing table, if needed.

In order to allow a routing of Taxbox messages to the IMS23 environment, the header of the XML message must be set up with the following details:

- CBF's Test BIC: <RecKey>DAKVDEF0XXX</RecKey>
- Customer's Test BIC: <SndKey>BNKDEFM0XXX</SndKey>
- Test indicator: <TstInd>true</TstInd>

5. Contact

During the preparation and the execution of the customer simulation period from **16 April to 4 May 2018**, please contact our Connectivity Support teams (connectfrankfurt@clearstream.com) for any questions regarding the dedicated test cases.

Particular questions related to the setup and test data as well as the test results will be routed to the T2S Settlement Functionality Team. During the customer simulation period, this team will be available from 09:00 to 16:00.

Appendix A - CBF processing day in customer simulation

The following table shows the CBF schedule for core activities, reporting times and deadlines within the “T2S Synchronised Standard Day”.

T2S Activity	CBF Activity	Application / system	Timing	Further details
Start of T2S Testing		T2S	07:00	
	Maintenance Window / End	CBF	07:00	
	CASCADE Online / Start	CASCADE	07:00	
	CASCADE Reporting MT537 – Statement of pending transaction MT586 – Statement of Allegements	CASCADE	07:30	
	CASCADE Reporting MT536 – Clearing & Settlement Statement MT537 – Statement of pending transaction MT586 – Statement of Allegements	CASCADE	08:00	
Partial Settlement Window 1 / Start		T2S	08:00	
Partial Settlement Window 1 / End		T2S	08:15	
	CASCADE Reporting MT536 – Clearing & Settlement Statement MT537 – Statement of pending transaction MT586 – Statement of Allegements	CASCADE	09:00	
	CASCADE Reporting MT536 – Clearing & Settlement Statement	CASCADE	10:00	
Partial Settlement Window 2 / Start		T2S	10:00	
	DD1 Cycle, followed by optional generation of Liquidity Transfers from RTGS to DCA	CASH	10:10	Will be supported in the period from 16 April to 4 May 2018
Partial Settlement Window 2 / End		T2S	10:15	
	Reporting MT564 – Notification MT566 – Confirmations (Income + Non-Income) MT568 – Narrative	KADI	10:30	
	KADI Non-Income: instruction of Market Claims on settled underlyings	KADI	10:30	
	CASCADE Reporting MT537 – Statement of pending transaction MT586 – Statement of Allegements	CASCADE	10:30	
	CASCADE Reporting MT536 – Clearing & Settlement Statement	CASCADE	11:00	

T2S Activity	CBF Activity	Application / system	Timing	Further details
	CASCADE Reporting MT537 – Statement of pending transaction MT586 – Statement of Allegements	CASCADE	11:15	
	KADI Reporting MT566 – Confirmations (Income)	KADI	11:30	
	CASCADE Reporting MT536 – Clearing & Settlement Statement MT537 – Statement of pending Transactions MT586 – Statement of Allegements	CASCADE	12:00	
Partial Settlement Window 3 / Start		T2S	12:00	
Partial Settlement Window 3 / End		T2S	12:15	
	KADI Non-Income: instruction of Market Claims on settled underlyings	KADI	12:25	
Partial Settlement Window 4 / Start		T2S	12:30	
Partial Settlement Window 4 / End		T2S	12:45	
	CASCADE Reporting MT537 – Statement of pending Transactions MT586 – Statement of Allegements	CASCADE	12:45	
	CASCADE Reporting MT536 – Clearing & Settlement Statement	CASCADE	13:00	
	DD2 Cycle, followed by Optional generation of Liquidity Transfers from RTGS to DCA	CASH	13:25	Will be supported in the period from 16 April to 4 May 2018
	CASCADE Reporting MT536 – Clearing & Settlement Statement MT537 – Statement of pending Transactions MT586 – Statement of Allegements	CASCADE	13:30	
	KADI-Reporting MT564 – Notification MT566 – Confirmations (Income + Non-Income) MT568 – Narrative	KADI	14:00	
Partial Settlement Window 5 / Start		T2S	14:15	
	Deletion of pending CCP-instructions	CBF	14:15	
	DD3 Cycle, followed by Optional generation of Liquidity Transfers from RTGS to DCA	CASH	14:15	Will be supported in the period from 16 April to 4 May 2018

T2S Activity	CBF Activity	Application / system	Timing	Further details
Partial Settlement Window 5 / End		T2S	14:30	
DvP/Cash SR Cut-Off		T2S	14:30	In the context of the CBF Cash Forecast reporting, in the simulation, the T2S event "IDVP" is used to generate the T2S Cash Forecast towards IMS23
Collateral Reimbursement		T2S	14:50	
	CASCADE Reporting MT536 – Clearing & Settlement Statement	CASCADE	15:00	
	KADI-Reporting MT566 – Confirmations (Income)	KADI	15:00	
	Cash Forecast for Night Time Processing	CASH	15:00	
BATM/CBO Cut-Off		T2S	15:10	
Inbound LTO cut-off and Automatic Cash Sweep		T2S	15:15	
Acceptance of FoP instruction / End (FoP cut-off)		T2S	15:30	
End of Day Processing		T2S	15:30	
	CASCADE Reporting MT537 – Statement of pending Transactions MT586 – Statement of Allegements	CASCADE	15:30	
	CASCADE End of day Processing	CASCADE	15:30	
	CASCADE Reporting MT536 – Clearing & Settlement Statement MT537 – Statement of pending Transactions MT586 – Statement of Allegements	CASCADE	after T2S End of Day Processing	
	CASCADE Reporting via HOST File Service Daily Cash Report ("Geldtagesauszug")	CASCADE	after T2S End of Day Processing	
	Cash Reporting: MT942 – EUR Cash Clearing Report MT950 – EUR Cash Clearing Report	CASH	after T2S End of Day Processing	
	CASCADE Reporting via HOST File Service Settlement List ("Regulierungsliste") Daily Account Statement ("Depotauszug")	CASCADE	after the end of T2S business day	

T2S Activity	CBF Activity	Application / system	Timing	Further details
	Reporting via HOST File Service: KV133001 / KV140001 / KV257001 (various matching status) / KV 259001 (trades affected by custody events)	CASCADE	after the end of T2S business day	
	Cash Management: Deadline for entry, deletion or modification of Liquidity Transfer for following NTS	CASH	16:00	
Start of Day Processing / Change of Business Day		T2S	16:15	
	CBF: Start of Day	CBF: Start of Day	16:15	
	LION Online / Start (after reorganisation)	CBF: LION Online	16:15	
	KADI-Reporting MT564 – Notification MT566 – Confirmations (Non-Income) MT568 – Narrative	KADI	16:15	
	Cash Management: Optional generation of Liquidity Transfers from RTGS to DCA based on CBF Cash Forecast	CASH	16:30	
Night Time Settlement / Start		T2S	17:00	
	CASCADE Reporting MT536 – Clearing & Settlement Statement MT537 – Statement of pending Transactions MT586 – Statement of Allegements	CASCADE	17:00	
Night Time Settlement / End		T2S	ca. 17:40	
T2S: Early Real Time Settlement / Start		T2S	ca. 17:40	
	KADI-Reporting MT564 – Notification MT566 – Confirmations (Non-Income) MT568 – Narrative	KADI	18:00	
Early Real Time Settlement / End		T2S	19:00	
Maintenance Window / Start		T2S	19:00	
Testing / End		T2S	19:00	
Maintenance Window / End		T2S	Ca. 19:10	
Real Time Settlement / Start		T2S	Ca. 19:10	
	KADI-Reporting MT564 – Notification MT568 – Narrative	KADI	19:30	
	CASCADE Reporting MT536 – Clearing & Settlement Statement	CASCADE	20:00	

T2S Activity	CBF Activity	Application / system	Timing	Further details
	CASCADE Reporting MT535 – Statement of Holdings	CASCADE	21:30	
	KADI-Reporting MT564 – Notification MT566 – Confirmations (Non-Income) MT568 - Narrative	KADI	23:00	
	CASCADE Reporting MT536 – Clearing & Settlement Statement MT537 – Statement of pending Transactions MT586 – Statement of Allegements	CASCADE	ca. 23:00	
	CASCADE Reporting MT537 – Statement of Pending Transactions MT586 – Statement of Allegements	CASCADE	23:45	
	Reporting MT536 – Clearing & Settlement Statement MT537 – Statement of Pending Transactions MT586 – Statement of Allegements	CASCADE	02:00	
	CASCADE Online / End	CBF: CASCADE Online / End	03:00	
	Maintenance Window / Start	CBF: Maintenance Window / Start	03:00	
	CASCADE Reporting MT537 – Statement of pending transaction MT586 – Statement of Allegements	CASCADE	05:00	
	CASCADE Reporting MT536 – Clearing & Settlement Statement MT537 – Statement of Pending Transactions MT586 – Statement of Allegements	CASCADE	06:00	
	KADI-Reporting MT564 – Notification MT566 – Confirmations (Income + Non-Income) MT568 – Narrative	KADI	06:00	
Maintenance Window / End		T2S	07:00	

Table 5 - CBF processing day in IMS23

Appendix B - T2S Deployment Schedule

Together with the [CBF Release Information May and June 2018](#), CBF provided two lists⁵:

- T2S Release 2.0 Overview CRs Version 1.0;
- T2S Release 2.0 PBIs Version 1.0.

These lists show the latest descriptions of the related T2S Change Requests (CRs) and Problem Tickets (PBIs) that might have impact on CBF customers acting in ICP and / or DCP mode.

The table below shows the software deployment dates for the related CRs and PBIs. During the preparation of the test cases, customers are requested to consider that not all T2S software components will be available with the start of the CBF customer simulation period.

Related Number	CR / PBI	Package	Deployment to UTEST
T2S-0655-SYS	CR	1	29.03.2018
T2S-0358-URD	CR	1	29.03.2018
PBI 201822	PBI	1	29.03.2018
PBI 201485	PBI	1	29.03.2018
PBI 200459	PBI	1	29.03.2018
PBI 200445	PBI	1	29.03.2018
PBI 200410	PBI	1	29.03.2018
PBI 200044	PBI	1	29.03.2018
T2S-0667-SYS	CR	2	29.03.2018
T2S-0666-SYS	CR	2	29.03.2018
T2S-0650-SYS	CR	2	29.03.2018
T2S-0649-SYS	CR	2	29.03.2018
T2S-0648-SYS	CR	2	29.03.2018
T2S-0645-SYS	CR	2	29.03.2018
T2S-0640-SYS	CR	2	29.03.2018
T2S-0632-SYS	CR	2	29.03.2018
T2S-0588-SYS	CR	2	29.03.2018
T2S-0562-SYS	CR	2	29.03.2018
T2S-0540-SYS	CR	2	29.03.2018
T2S-0446-SYS	CR	2	29.03.2018
PBI 202226	PBI	2	29.03.2018
PBI 201996	PBI	2	29.03.2018
PBI 200181	PBI	3	29.03.2018
PBI 202433	PBI	4	29.03.2018
PBI 202186	PBI	4	29.03.2018
PBI 202185	PBI	4	29.03.2018
PBI 201242	PBI	4	29.03.2018
PBI 200400	PBI	4	29.03.2018
PBI 200360	PBI	4	29.03.2018

⁵ In case of updates customers are requested to use the latest version of the Release Information for their preparation of test cases.

Related Number	CR / PBI	Package	Deployment to UTEST
PBI 160693	PBI	4	29.03.2018
PBI 202464	PBI	5	27.04.2018
PBI 202413	PBI	5	27.04.2018
PBI 202364	PBI	5	27.04.2018
PBI 202126	PBI	5	27.04.2018
PBI 200933	PBI	5	27.04.2018
PBI 200427	PBI	5	27.04.2018
PBI 201233	PBI	5	27.04.2018
PBI 202529	PBI	6	27.04.2018
PBI 202200	PBI	6	27.04.2018
PBI 202191	PBI	6	27.04.2018
PBI 201620	PBI	6	27.04.2018
PBI 201527	PBI	6	27.04.2018
PBI 200343	PBI	6	27.04.2018
T2S-0663-SYS	CR	7	27.04.2018
T2S-0621-SYS	CR	7	27.04.2018
T2S-0515-URD	CR	7	27.04.2018
PBI 202345	PBI	7	27.04.2018
PBI 202069	PBI	7	27.04.2018
PBI 201910	PBI	7	27.04.2018
PBI 201264	PBI	7	27.04.2018
PBI 200047	PBI	7	27.04.2018
PBI 201508	PBI	8	27.04.2018
PBI 161307	PBI	8	27.04.2018
T2S-0660-SYS	CR	LTSI ⁶	06.07.2018
PBI 202112	PBI		No date available yet

Table 6 – T2S software deployment dates for the related CRs and PBIs in UTEST

⁶ LTSI = T2S event “Long Term Statistical Information”

Appendix C – Setup of domestic OTC settlement instructions

The following table provides customers the information required to enter OTC settlement instructions during the simulation.

General information for settlement Domestic OTC Free of Payment and against payment Euro instructions in NTS and RTS (OTC DFoP / RFoP, PFoD debit / credit, DvP / RvP Euro and DwP / RwP Euro)						
Instruction entry				Reporting type	Report, if ordered by customers for IMS23	Send date / online availability
Type	CASCADE -HOST / PC	ISO 15022 (ICP)	ISO 20022 (DCP)	ISO 15022 (ICP)	MT548 (Status reporting)	Real-time
DFoP/ DvP (DwP)	KVEE-WE/ OTC - enter delivery	MT542/ MT543	sese.023 DELI with FREE or with APMT and CRDT		MT545 - MT547 (Deliver / Receive Free confirmation - Deliver / Receive against payment confirmation)	Real-time
	KVEK / OTC – unverified instructions – verify				MT578 (Settlement Allegement)	Real-time
					MT535 (Statement of Holdings)	End of Day (EoD)
					MT536 (Statement of settled Transactions / Clearing & Settlement Statement (C&S Statement))	End of Day (EoD): complete or at predefined sending times (Delta)
RFoP/ RvP (RwP)	KVEE-MI / OTC – enter receipt	MT540/ MT541	sese.023 RECE with FREE or with APMT and DBIT		MT537 (Pending CASCADE OTC instructions)	Daytime: hourly Night-time: At predefined times or events
	KVEK / OTC – unverified instructions – verify				MT586 (Statement of Allegements)	Daytime: hourly Night-time: at predefined times or events
	PFoD debit as RvP with nominal = 0					
	PFoD credit as DvP with nominal = 0					
		see DvP (PFoD DELI / RvP (PFoD RECE))	see DvP/RvP	CASCADE HOST	KVDU-ID (movements) KVBA-BB (Positions per ISIN) KVAI (Pending verified instructions)	CASCADE Online opening hours
				CASCADE PC	movements / positions - movements – booked movements - final positions OTC-pending instructions	
				ISO 20022 (DCP)	See Connectivity Handbook DCP	

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